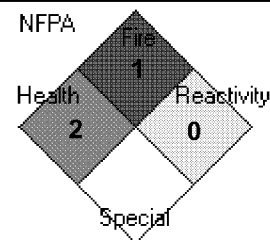


MSDS - Material Safety Data Sheet**Product Name: AUTO TRUCK DE-ICER****MSDS No.: DEI****I. Basic Information:****Manufacturer:** RADIATOR SPECIALTY COMPANY**Address:** P.O. BOX 159, 600 RADIATOR ROAD**City, ST Zip:** INDIAN TRAIL, NC 28079**Emergency Contact:** Rocky Mountain Poison Control Center**Emergency Telephone Number:** 303-623-5716**Contact:** Robert Geer**Information Telephone Number:** 704-688-3430**Last Update:** 04/04/2003**Chemical State:** ☒ Liquid ☐ Gas ☐ Solid**Chemical Type:** ☐ Pure ☒ Mixture

2	Health
1	Flammability
0	Reactivity
B	Pers. Protection

II. Ingredients:☐ Trade Secret

CAS No.	Chemical Name	% Range	EHS	IARC	SARA	OSHA	ACGIH	Other Limits
			NTP	SUB Z	313	PEL	TLV	
124389	Carbon dioxide	3-5						5000 ppm
107211	Ethylene glycol	3-7			X	50 ppm		100 mg/m3
67561	Methanol	45-55			X	200 PPM		200 PPM

III. Hazardous Identification:**Hazard Category:**
☒ Acute
 ☒ Chronic
 ☒ Fire
 ☒ Pressure
 ☐ Reactive
Hazardous Identification Information:

POISON. May be Fatal or cause Blindness if Swallowed. Flammable. Vapor Harmful. Eye and Skin Irritant. Contents Under Pressure.

Level 1 Aerosol

IV. First Aid Measures:**Route(s) of Entry:**

Absorption, Eye, Inhalation, and Ingestion.

Health Hazards (Acute and Chronic):

Reports have associated repeated and prolonged over-exposure to solvents with permanent brain and nervous system damage. Methanol is a poisonous, narcotic chemical and if ingested can cause blindness and death.

Signs and Symptoms:

Eye Contact: May be irritating to eyes

Skin Contact: Prolonged exposure may cause dermatitis..

Inhalation: Repeated exposure may cause narcosis.

Ingestion: Poison, May cause death or blindness.

Medical Conditions Generally Aggravated by Exposure:

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Over-exposure may cause central nervous system depression.

Emergency and First Aid Procedures:

Eye Contact: Flush eyes with clean water for 15 minutes while lifting eyelids. Get prompt medical attention.

Skin Contact: Wash with soap and water thoroughly. If adverse effects persist, get prompt medical attention. Launder contaminated clothing before reuse.

Inhalation: Remove to fresh air. If breathing becomes difficult get prompt medical attention.

Ingestion: DO NOT INDUCE VOMITING! Call Poison Control Center, physician, or hospital emergency room immediately.

Other Health Warnings:

V. Fire Fighting Measures:

Flash Point: 54°F

Lower Explosive Limit: 6.0

Upper Explosive Limit: 36.5

F.P. Method: TCC

Fire Extinguishing Media: Water Fog, Foam, Carbon Dioxide, Dry Chemical

Special Fire Fighting Procedures:

Wear self-contained positive pressure breathing apparatus and protective clothes. Cool containers with a water fog. Do not use forced water stream as this could cause the fire to spread. Use shield to protect from rupturing and venting containers.

Unusual Fire and Explosion:

Although aerosols are classified as nonflammable under ASTM D 3065-77 Flame Projection Test, this product should not be used or stored near any open flames or ignition sources. Contents under pressure. Self-pressurized aerosol containers. Keep temperature of containers below 120°F to prevent bursting.

VI. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

Eliminate all ignition sources. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc). Using a non-metallic scoop, place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid using an explosion proof vacuum to recover material. Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred.

VII. Handling and Storage:

Precautions to be Taken:

Use with adequate ventilation and proper protective equipment.

Do not use or store near fire, sparks, or open flame. Do not puncture or incinerate container. Exposure to temperatures above 120° may cause container to vent, rupture, or burst.

Other Precautions:

Avoid contact with oxidizing agents. Avoid contact with eyes. Avoid prolonged or repeated breathing of vapors. If exposure may or does exceed occupational exposure limits, use a NIOSH approved respirator to prevent over-exposure.

POISON. May be Fatal or cause Blindness if Swallowed. Product can not be made non-poisonous.

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MSDS No.: *DEI*

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

See Section 2 for applicable exposure limits. Maintain adequate ventilation. Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use approved air line type respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above TLV limits.

Personal Protective Equipment:

See Section 2 for applicable exposure limits. For prolonged exposure wear protective safety glasses, gloves, and apron.

IX. Physical and Chemical Properties:

Boiling Point: 148°F

Melting Point: N/A

Evaporation Rate (Butyl Acetate = 1): 5.9

Vapor Pressure (mm Hg.): N/D

Specific Gravity (H₂O = 1): 0.79200

Vapor Density (AIR = 1): 1.11

Solubility In Water: Infinite

Appearance and Odor: Clear liquid with alcohol odor

Other Information:

X. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Strong oxidizing agents, will attack some forms of plastics and rubber.

Decomposition/By Products:

Carbon monoxide, carbon dioxide may form during combustion.

Hazardous Polymerization:

Will not occur.

XI. Toxicological Information:

N/D

XII. Ecological Information:

N/D

XIII. Disposal Considerations:

DISPOSAL: This container may be recycled in aerosol recycling centers when empty. Before offering for recycling, empty the can by using the product according to the label. DO NOT PUNCTURE! If recycling is not available, wrap the container and discard in the trash. Dispose of unused product in accordance with all local, state government and federal laws and regulations.

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XIV. Transport Information:

DOT Hazard Class: ORM-D

Shipping Name: Consumer Commodity

XV. Regulatory Information:

See Section 2 for SARA Reportable Chemicals.

USA TSCA: All components of this material are listed on the US TSCA Inventory.

Warning: This product contains a chemical(s) known to the State of California to cause cancer or birth defects or other reproductive harm.

XVI. Other Information:

Do not used in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye.
KEEP AWAY FROM CHILDREN AND ANIMALS!

N/E: Not Established

N/D: Not Determined

N/A: Not Applicable

N/AV: Not Available

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